Flight-Testing Newton's Laws						
2000 Science, Math, and Technology Framework of Standards						
Grades 9-12	04-4-	Otan danda				
Activity/Lesson	State	Standards	Define and use variables, neverters			
			Define and use variables, parameters, constants, and unknowns in work with both			
			functions and equations; solve equations both			
			symbolically and graphically, especially linear,			
			quadratic, and exponential equations; use			
		SMT.9-	equations to represent curves such as circles,			
Session-10 (1-5)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;			
06331011-10 (1-0)	VI	12.7.0.7.0.000	Use Newton's laws to explain quantitatively the			
			effects of applied forces; observe, explain, and			
			model object motion in a plane; qualitatively			
		SMT.9-	investigate conservation of momentum as it			
		12.7.12.7.12.dd	relates to collisions, and investigate the			
Session-10 (1-5)	VT	d4	mechanics of rolling motion;			
			Define and use variables, parameters,			
			constants, and unknowns in work with both			
			functions and equations; solve equations both			
			symbolically and graphically, especially linear,			
			quadratic, and exponential equations; use			
		SMT.9-	equations to represent curves such as circles,			
Session-1 (1-17)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;			
			Use Newton's laws to explain quantitatively the			
			effects of applied forces; observe, explain, and			
			model object motion in a plane; qualitatively			
		SMT.9-	investigate conservation of momentum as it			
		12.7.12.7.12.dd	relates to collisions, and investigate the			
Session-1 (1-17)	VT	d4	mechanics of rolling motion;			
			Define and use variables, parameters,			
			constants, and unknowns in work with both			
			functions and equations; solve equations both			
			symbolically and graphically, especially linear,			
		ON AT O	quadratic, and exponential equations; use			
Onnaine 0 (4 40)	\	SMT.9-	equations to represent curves such as circles,			
Session-2 (1-10)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;			
			Use Newton's laws to explain quantitatively the effects of applied forces; observe, explain, and			
			model object motion in a plane; qualitatively			
		SMT.9-	investigate conservation of momentum as it			
		12.7.12.7.12.dd	relates to collisions, and investigate the			
Session-2 (1-10)	VT	d4	mechanics of rolling motion;			
23301011 2 (1 10)	V 1	<b>4</b> 1	Define and use variables, parameters,			
			constants, and unknowns in work with both			
			functions and equations; solve equations both			
			symbolically and graphically, especially linear,			
			quadratic, and exponential equations; use			
		SMT.9-	equations to represent curves such as circles,			
Session-3 (1-6)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;			

			Use Newton's laws to explain quantitatively the
			effects of applied forces; observe, explain, and
			model object motion in a plane; qualitatively
		SMT.9-	investigate conservation of momentum as it
		12.7.12.7.12.dd	relates to collisions, and investigate the
Session-3 (1-6)	VT	d4	mechanics of rolling motion;
			Define and use variables, parameters,
			constants, and unknowns in work with both
			functions and equations; solve equations both
			symbolically and graphically, especially linear,
			quadratic, and exponential equations; use
		SMT.9-	equations to represent curves such as circles,
Session-4 (1-11)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;
			Use Newton's laws to explain quantitatively the
			effects of applied forces; observe, explain, and
			model object motion in a plane; qualitatively
		SMT.9-	investigate conservation of momentum as it
		12.7.12.7.12.dd	relates to collisions, and investigate the
Session-4 (1-11)	VT	d4	mechanics of rolling motion;
, ,			Define and use variables, parameters,
			constants, and unknowns in work with both
			functions and equations; solve equations both
			symbolically and graphically, especially linear,
			quadratic, and exponential equations; use
		SMT.9-	equations to represent curves such as circles,
Session-5 (1-6)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;
,			Use Newton's laws to explain quantitatively the
			effects of applied forces; observe, explain, and
			model object motion in a plane; qualitatively
		SMT.9-	investigate conservation of momentum as it
		12.7.12.7.12.dd	relates to collisions, and investigate the
Session-5 (1-6)	VT	d4	mechanics of rolling motion;
, ,			Define and use variables, parameters,
			constants, and unknowns in work with both
			functions and equations, solve equations both
			symbolically and graphically, especially linear,
			quadratic, and exponential equations; use
		SMT.9-	equations to represent curves such as circles,
Session-6 ( 1-8)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;
, ,			Use Newton's laws to explain quantitatively the
			effects of applied forces; observe, explain, and
			model object motion in a plane; qualitatively
		SMT.9-	investigate conservation of momentum as it
		12.7.12.7.12.dd	relates to collisions, and investigate the
Session-6 ( 1-8)	VT	d4	mechanics of rolling motion;
			Define and use variables, parameters,
			constants, and unknowns in work with both
			functions and equations; solve equations both
			symbolically and graphically, especially linear,
			quadratic, and exponential equations; use
		SMT.9-	equations to represent curves such as circles,
Session-7 (1-5)	VT	12.7.8.7.8.ccc3	ellipses, parabolas, and hyperbolas;
		SMT.9-	Define and use variables, parameters, constants, and unknowns in work with both functions and equations; solve equations both symbolically and graphically, especially linear, quadratic, and exponential equations; use equations to represent curves such as circles,

Session-7 (1-5)	VT	SMT.9- 12.7.12.7.12.dd d4	Use Newton's laws to explain quantitatively the effects of applied forces; observe, explain, and model object motion in a plane; qualitatively investigate conservation of momentum as it relates to collisions, and investigate the mechanics of rolling motion;
Session-8 (1-9)	VT	SMT.9- 12.7.8.7.8.ccc3	Define and use variables, parameters, constants, and unknowns in work with both functions and equations; solve equations both symbolically and graphically, especially linear, quadratic, and exponential equations; use equations to represent curves such as circles, ellipses, parabolas, and hyperbolas;
Session-8 (1-9)	VT	SMT.9- 12.7.12.7.12.dd d4	Use Newton's laws to explain quantitatively the effects of applied forces; observe, explain, and model object motion in a plane; qualitatively investigate conservation of momentum as it relates to collisions, and investigate the mechanics of rolling motion;
Session-9 (1-7)	VT	SMT.9- 12.7.8.7.8.ccc3	Define and use variables, parameters, constants, and unknowns in work with both functions and equations; solve equations both symbolically and graphically, especially linear, quadratic, and exponential equations; use equations to represent curves such as circles, ellipses, parabolas, and hyperbolas;
Session-9 (1-7)	VT	SMT.9- 12.7.12.7.12.dd d4	Use Newton's laws to explain quantitatively the effects of applied forces; observe, explain, and model object motion in a plane; qualitatively investigate conservation of momentum as it relates to collisions, and investigate the mechanics of rolling motion;